

R3161i iSCSI / NAS Storage

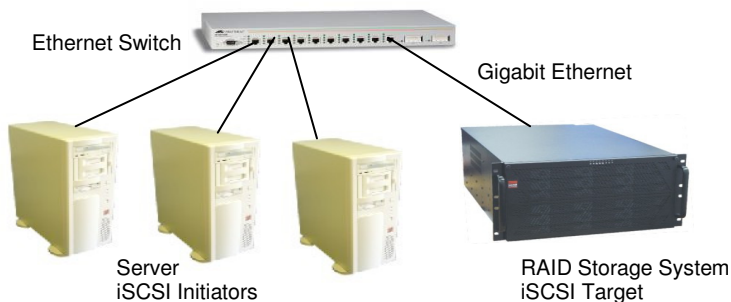


- ▶ Cost Effective iSCSI and NAS Storage
- ▶ Massive Storage Capacity In Just 3U
- ▶ Integrated Hardware RAID Engine
- ▶ Enterprise Class Disk Technology
- ▶ Three Gbit Ethernet Interfaces
- ▶ Simple and Easy to Setup and Manage



Cost Effective, High Capacity, NAS and iSCSI Storage

- ▶ **Scaleable Storage Storage** – Provision storage capacity to multiple servers (iSCSI Initiators) from one or more iSCSI target storage system. Add multiple iSCSI storage systems (iSCSI Targets) to expand storage capacity, simply and easily or add additional disk shelves using the SAS expansion port. Use as NAS for file sharing applications.
- ▶ **Low Cost Connectivity Connectivity** – Using standard 1Gb Ethernet cables to connect to your host servers. That means no high cost SCSI or Fibre Channel Interfaces are required on your server, just standard Gbit network cabling and low cost Ethernet ports are needed to build your storage area network - or simply connect to your LAN to use the unit as a NAS
- ▶ **Flexible Storage** - iSCSI is a block based storage technology meaning that any type of data can be stored on the system including database (Exchange, SQL, Oracle etc) data, and provides storage to multiple servers such that the provisioned capacity looks just like an internal SCSI disk drive to the server that the storage has been allocated to. It couldn't be simpler. As a NAS the system appears as a network based file store.



Hardware Features

- ▶ High Density Rugged 3U Rack Mount chassis
- ▶ 16 Hot Swap S-ATA II Disk Drive Bays
- ▶ Redundant Hot Swap Power Supply
- ▶ High Performance Hardware RAID Engine
- ▶ Three Gbit Ethernet LAN Interfaces
- ▶ Fast Processor iSCSI Engine
- ▶ RAID 5 and RAID 6 Data Security
- ▶ Hot Standby Disk Drive Support
- ▶ Automatic Rebuild Support



NAS and iSCSI Features

Administration

Web-based Graphical User Interface
Secured Administration Access
Tuning Tools
Remote Access for Console
Multiple Management Levels
Task Manager
Schedule Manager

Network Management

DHCP Client
Multiple Network Interface Support
Teaming/Bonding
Proxy settings
IP-sec
Jumbo Frames Support

Storage Management

Software iSCSI Initiator
Support for over 16TB Logical Volumes
Multiple Logical Volume & Groups
Online Logical Volume Expansion
Support for Online Capacity Expansion
Build-in, SNMP based monitoring system
UPS and Network UPS Support

Monitoring

Hardware Monitoring
SNMP v2, v3
Log Function
S.M.A.R.T with E-Mail Notification

Data Replication and Snapshots

Multiple Snapshot
Asynchronous Volume Replication over LAN
Synchronous Volume Replication over LAN with iSCSI failover (Cluster)

Backup Utility

Local Backup
Integrated Backup System
Virtual Tapes
Support for Tape Libraries, Autoloader
Tape Retention Time

Specific NAS Functionality

Windows Active Directory / Primary Domain Controller
Support for Network Information Service (NIS)
Internal and External LDAP
ADS & NIS User / Group ID Synchronization
File System with Journaling Support
User and Group Quota Control
Antivirus (server's shares scanning)

Supported Network Clients

Microsoft Windows, Linux, Unix, Mac OS X

Supported Network File Protocol

SMB/CIFS, FTP, Secure FTP, HTTP, Apple Talk, NFS v2, v3

Specific iSCSI Functionality

Improved Software Architecture
Installable Version
IP Address Restrictions for a Target
CHAP User Management
MPIO Support
iSCSI Failover (requires second system)
USB Storage Support for Dynamic Disk
Backup-Agents (Backup Exec®, Retrospect®, BrightStor®)
SCSI-3 Persistent Reservation Support

Other Features

WORM Support (Write Once Ready Many)
NDMP Support (Network Data Management Protocol)
NDMP v4 support
IP Address Restrictions for a Target



Data Capacity

The R3161i iSCSI/NAS RAID storage system supports up to 16 hot swap S-ATA II disk drives including 500GB, 1TB and 2TB models. Each system is configured with disk drives, the RAID built to your chosen specification including any hot spares and fully tested prior to shipment. With 16 x 1TB disk drives fitted, the unit provides a raw capacity of 16TBytes which in the recommended RAID 6 configuration provides approximately 14TBytes useable capacity less formatting. The unit comes with a storage capacity license to support up to 16TB which is expandable.

Specification

Hard Drive Interface	16 x 300MBytes/Second S-ATA II Channels, Hot Swap Carriers
Data Interface	Three Gbit Ethernet (copper) RJ45 as Standard Compliant with all standard iSCSI Initiators including Microsoft Windows, VMware, Linux, UNIX, Novell Netware 6.5, Apple OS X
RAID Engine	High Performance 64 Bit H/W RAID Controller with SAS Expansion. Supports RAID 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk or JBOD MAID, Disk Roaming, Dynamic Expansion, Hot Spare and Auto Rebuild
iSCSI / NAS Engine	Embedded Firmware NAS and iSCSI Target Multi-Core Processor Engine Wire-Speed Performance on Gigabit Interfaces
Cooling	Three 120mm Integrated Replaceable Redundant Fan Modules 120CFM each fan. Front Mounted (Blowers). Air flow Front to Rear
System Monitor	Alarming on Fan Speeds and Temperature Disk and RAID Fault Monitoring and Remote Alerting Remote RAID Management GUI over Ethernet
Power Supply	650W Redundant Load Sharing (2+1) AC Power Supply Triple Power Cords Auto-ranging 100 to 240 Volts AC +/-10%, 47Hz to 63Hz Power Consumption 450W typical
Environmental	Operating +10 to +40 deg C (Recommended 18 to 22 deg C) Storage 0 to +55 deg C Humidity 10 to 85% Non-condensing
Physical	Weight 19Kg (excluding hard drives) 3U 19" rack, 444mm Wide x 133mm High x 711mm Deep
CE Compliance	Conforms with EEC Directives on EMC & Safety Designed to Meet UL and FCC Requirements

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Specifications subject to change without notice

